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*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*



**WO 03/082282 A1**

(54) Title: **METHOD OF USE**

(57) Abstract: A method for treatment of sleeping disturbance to obtain improvement of sleeping, wherein a therapeutically effective dose of esomeprazole or an alkaline salt thereof is administered to a patient suffering therefrom. The method is applicable for instance in patients suffering from gastroesophageal diseases (GERD).

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 02/00642

## A. CLASSIFICATION OF SUBJECT MATTER

IPC7: A61K 31/4439, A61P 11/00, A61P 25/00  
According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

CA-PLUS, EMBASE

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	The American Journal of Gastroenterology, Volume 96, No. 7, 2001, Nicholas J. Talley et al: "Quality on Life in Patients With Endoscopy-Negative Heartburn: Reliability and Sensitivity of Disease-Specific Instruments", pages 1998-2004  --	1-11
X	Digestive Diseases and Sciences, Volume 46, No. 11, 2001, Susan D. Mathias et al: "Health-Related Quality-of-Life and Quality-Days Incrementally Gained in Symptomatic Nonerosive GERD Patients Treated with Lansoprazole or Ranitidine", pages 2416-2423  --	1-11

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

## \* Special categories of cited documents

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family

Date of the actual completion of the international search

7 November 2002

Date of mailing of the international search report

15-11-2002

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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 02/00642

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	The American Journal of Gastroenterology, Volume 92, No. 3, 1997, Stephen J. Sontag et al: "Lansoprazole Heals Erosive Reflux Esophagitis Resistant to Histamine H2-Receptor Antagonist Therapy", pages 429-437  --	1-11
X	Practical Gastroenterology, Volume 17, 1993, Joseph R. Murphy et al: "Sleep and the Respiratory Complications of Gastroesophageal Reflux", pages 16-29  --	1-11
A	International Journal of Pediatric Otorhinolaryngology, Volume 51, 1999, M.M. Carr et al: "Severe non-obstructive sleep disturbance as an initial presentaion of gastroesophageal reflux disease", pages 115-120  --	1-11
A	Clinical and Experimental Pharmacology & Physiology, Volume 13, 1986, D. A. Henry et al: "Omeprazole effects on oxidative drug metabolism in the rat", pages 377-381  -- -----	1-11

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/SE02/0064

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 1  
because they relate to subject matter not required to be searched by this Authority, namely:  
**see next sheet**
2. ☐ Claims Nos.:  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid; specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

### Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.  
☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Internat..... application No.  
PCT/SE02/00642

Claims 1-9 relate to methods of treatment of the human or animal body by surgery or by therapy/diagnostic methods practised on the human or animal body/Rule. 39.1.(iv)). Nevertheless, a search has been executed for these claims. The search has been based on the alleged effects of the compounds/compositions.